## WHAT IS CLAIMED IS:

- 1. A rotary solenoid apparatus comprising:
- a rotation shaft,
- a regulating means for regulating the rotation range of the rotating shaft,
- a permanent magnet fixed to the rotating shaft in a body,
- a spring for urging the rotating shaft in the circumferential direction,
- a yoke having a pair of stator portions being opposite to the permanent magnet with a predetermined clearance,
- a coil wound on the yoke and
- an energization control means for controlling the energization of the coil so that the coil is selectively excited,
- wherein the permanent magnet is magnetized in the radial direction of the rotation shaft.
- 2. A rotary solenoid apparatus as recited in Claim 1, wherein energization control means includes a switching element for controlling the energization of the coil and a means for shorting between both ends of the coil so that current flows the same direction as the energization direction of the coil when the energization of the coil is interrupted.

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